Date:

Thursday, 4/12/2007 9:08:14 AM

User

Kim Johnston

**Process Sheet** 

Customer

: CU-DAR001 Dart Helicopters Services

Job Number : 31759

Estimate Number : 10089

P.O. Number

This Issue

Prsht Rev.

First Issue

Written By

Comment

Previous Run

: NA

: 4/12/2007

S.O. No. : NA

: NC

MA : 30520

Type

: PURCHASED PARTS

KJ/DS 04.02.19 New Issue

Part Number

: D312123

: D3121 REV D : N/A

: BEARING

Project Number **Drawing Revision** 

**Drawing Name** 

**Drawing Number** 

Material Due Date : 5/10/2007

Each

**Additional Product** 

Checked & Approved By

Job Number:



Seq. #:

Machine Or Operation:

: Est. A:

Description:

1.0



**PURCHASING** 

CL07/04/13



Comment: PURCHASING

Issue P/0: \_352 /

Bearing as per Dwg D3121

Possible Supplier: SKF P/N: 61900-2Z or KML P/N: 6900-ZZ

Material release note is required

2.0

3.0

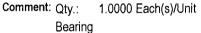
6900ZZ



Total:

40.0000 Each(s)

Bearing



PACKAGING 1

PACKAGING RESOURCE #1







Comment: PACKAGING RESOURCE #1

Receive & Inspect for Transit Damage Ensure Material Release Note is attached

4.0 QC6

Comment: DIMENSIONAL CHECK

5.0

PACKAGING

PACKAGING RESOURCE #1

Comment: PACKAGING RESOURCE #1

Identify and Stock

Location:



# **Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
Part No	;	PAR #: Fault Category:	_ NCR: Ye	s (No) DQ	A: 🕮	Date:	Hoylay			
			QA	N/C Closed	d:	_ Date: _	<u> </u>			

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
DATE		Description of NC	Corrective Action Section B			Verification	A			
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector		
							-			

NOTE: Date & initial all entries

Date: \* «User:

Thursday, 4/12/2007 9:08:14 AM

Kim Johnston

**Process Sheet** 

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: BEARING

Job Number: 31759

Part Number: D312123

Job Number:



Seq. #:

**Machine Or Operation:** 

Description:

QC21



FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



# Dart Aerospace Ltd

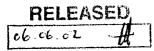
W/O:		WORK ORDER CHANGES	WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto			
					:					
Part No		PAR #: Fault Category: N	CR: Yes	s No <b>DQ</b>	<b>A</b> :	_ Date: _				
			QA:	N/C Close	d:	Date: _				

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
DATE		Description of NC	Corrective Action Section B			Verification		A		
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector		

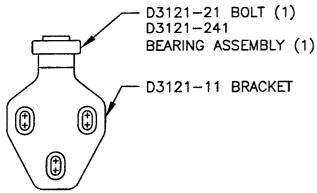
NOTE: Date & initial all entries



DESIG	4	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	(ED)	APPROVED A	DRAWING NO. REV. D
	M. K.	#	D3121 SHEET 1 OF 10
DATE	<del></del>		TITLE SCALE
06.0	5.17		BRACKET ASSEMBLY 1:2
Α		02.04.15	NEW ISSUE
В		03.01.16	ADD RIDGES; ADD MAT'L PROP; FIX P/N ADD -141/-143/-144/-145/-146
С		04.02.17	ADD CLEARANCE; USE -241 BEARING

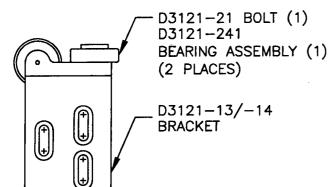


В	03.01.16	ADD RIDGES; ADD MAT'L PROP; FIX P/N ADD -141/-143/-144/-145/-146
С	04.02.17	ADD CLEARANCE; USE -241 BEARING
D	06.05.17	D3121-25 CAP WAS 1.024, NOW 1.000



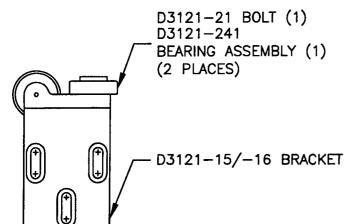
# D3121-041 BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-33)



# D3121-043 (SHOWN) / D3121-044 (OPPOSITE) BRACKET ASSEMBLY

(REPLACES PREMIER P/N B30-23000-37/-38)



# D3121-045 (SHOWN) / D3121-046 (OPPOSITE) BRACKET ASSEMBLY

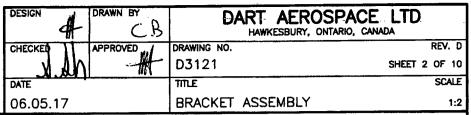
(REPLACES PREMIER P/N B56型29000-35/-36)

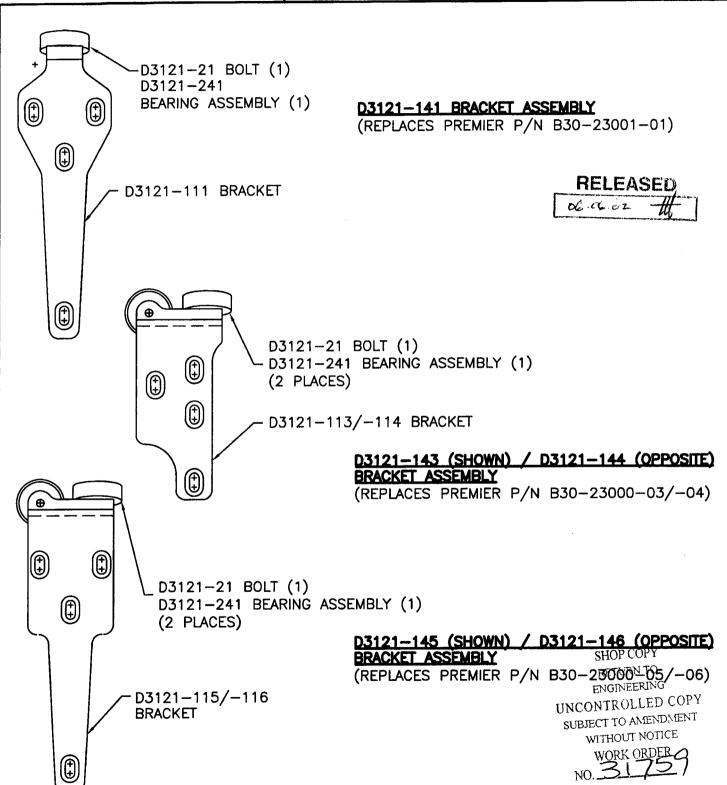
RETURN TO **ENGINEERING** 

UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE

WORK ORDEI

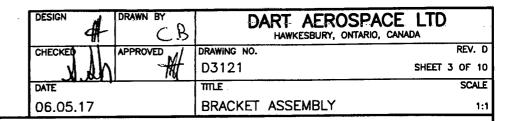




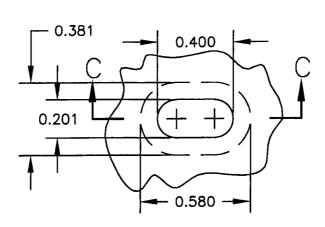


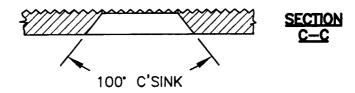
Copyright © 2002 by DART AEROSPACE LTD



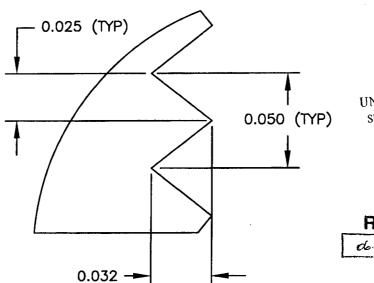








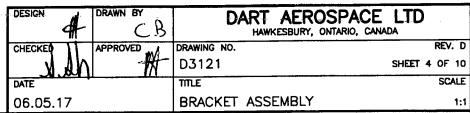
DETAIL B: RIDGE DETAIL PARTIAL SECTION **SCALE 1:20** 

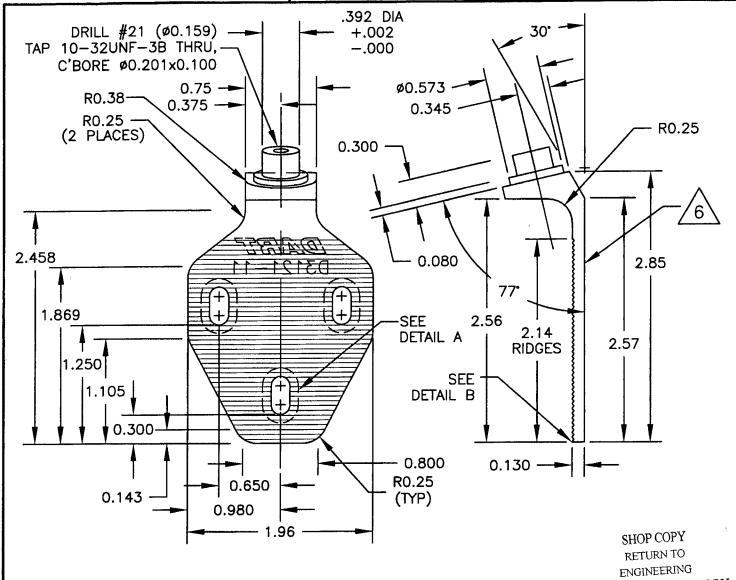


SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE

RELEASED do de oz







D3121-11 BRACKET

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B)
MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

5) ENGRAVE DART P/N & LOGO AS SHOWN

6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

RELEASED

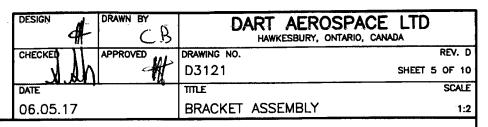
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

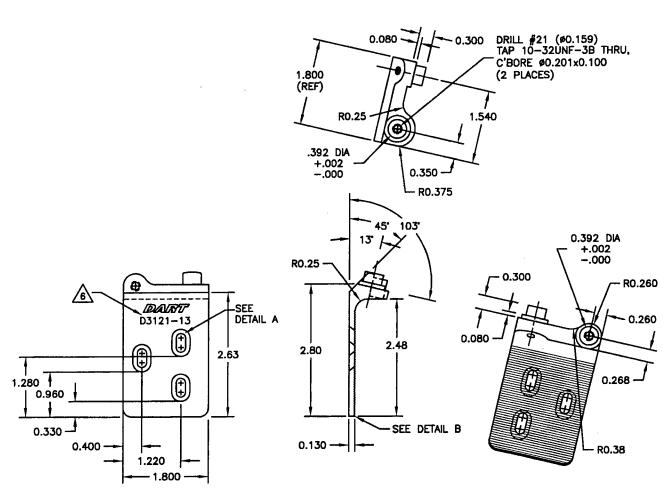
06.06.02 H

NO.\_

Copyright © 2004 by DART AEROSPACE LTD







D3121-13 BRACKET (SHOWN) D3121-14 BRACKET (OPPOSITE)

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) MIN ULTIMATE TENSILE STRENGTH = 150 ksi MIN YIELD TENSILE STRENGTH = 100 ksi

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

5) ENGRAVE DART P/N & LOGO AS SHOWN

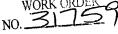
6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

SHOP COPY RETURN TO **ENGINEERING** 

UNCONTROLLED COPY

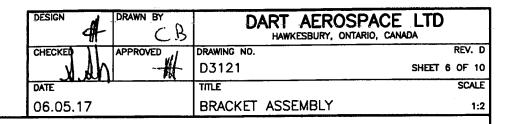
SUBJECT TO AMENDMENT WITHOUT NOTICE

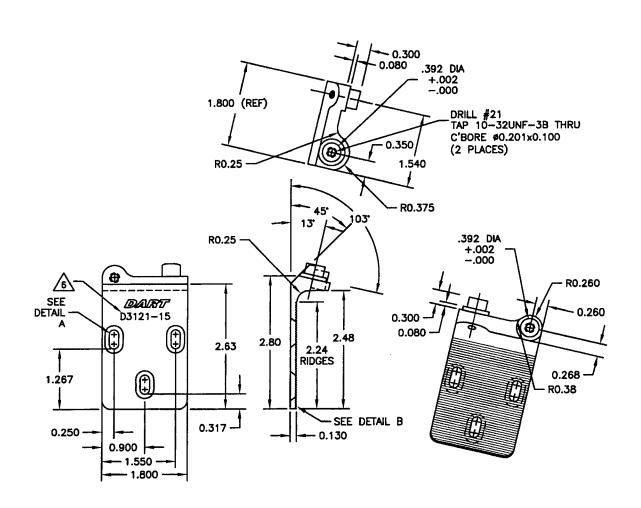
WORK ORDER



RELEASED 06 de 02







D3121-15 BRACKET (SHOWN) D3121-16 BRACKET (OPPOSITE)

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY

1) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) SUBJECTIO AMENDMENT MIN ULTIMATE TENSILE = 150 ksi MIN YIELD TENSILE = 100 ksi

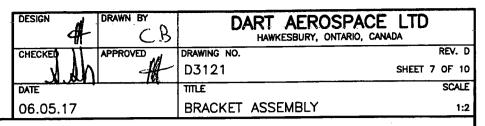
WITHOUT NOTICE

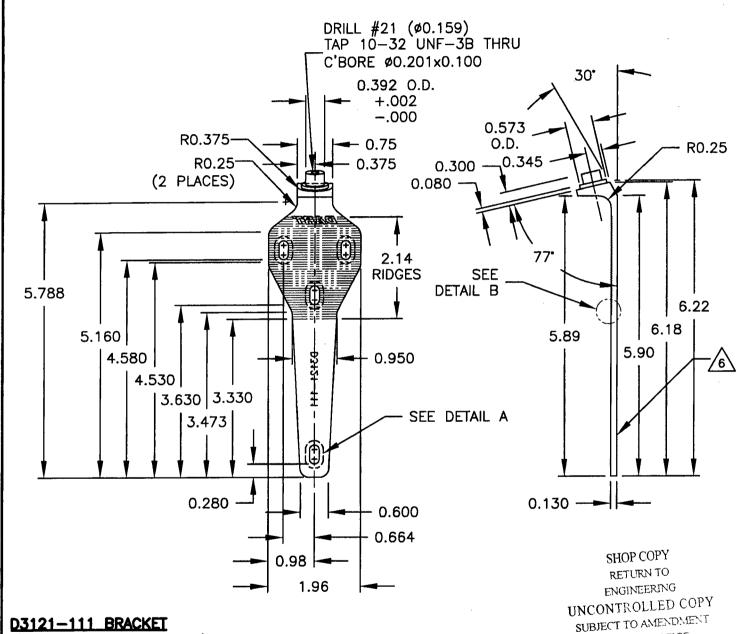
TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

- 3) ALL DIMENSIONS ARE IN INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 5) ENGRAVE DART P/N AND LOGO AS SHOWN
- 6) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

RELEASED 06 06 02







### D3121-111 BRACKET

1) REPLACES PREMIER P/N B32-23001-11

2) MATERIAL: 17-4 SS PER AMS 5604/5643 (REF DART SPEC. M17-4-B) MIN ULTIMATE TENSILE = 150 ksi

MIN YIELD TENSILE = 100 ksi

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHEWISE NOTED

- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 6) ENGRAVE DART P/N & LOGO IN AREAS SHOWN
- 7) HOLE IN SPIGOT TO BE CONCENTRIC WITHIN 0.005

RELEASED

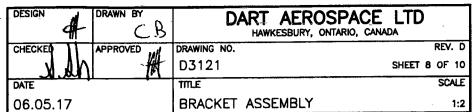
WITHOUT NOTICE

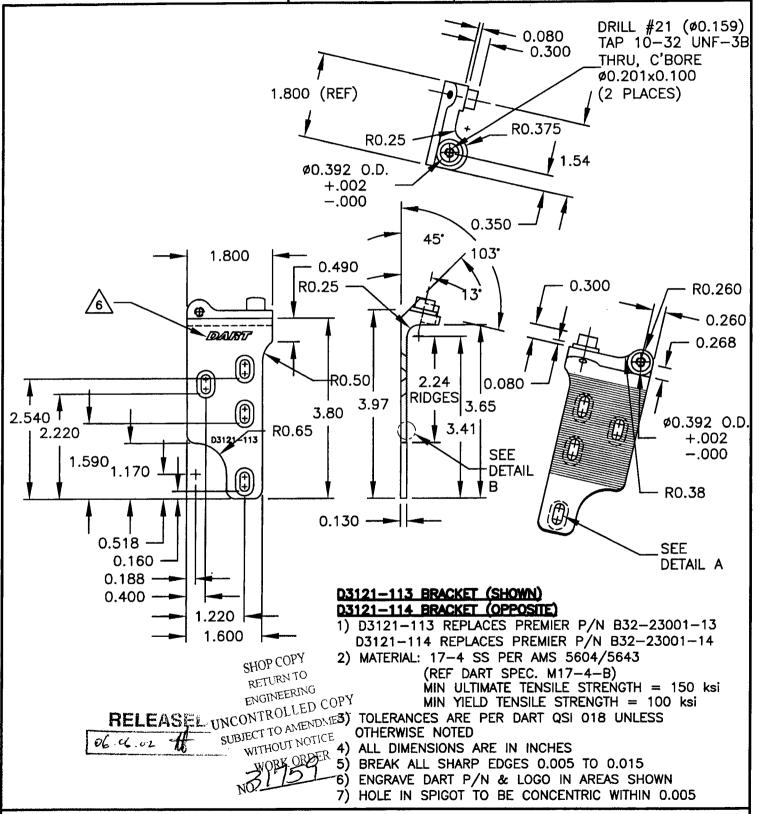
WORK ORDER

06.06.62

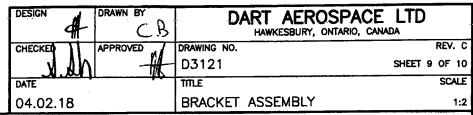
Copyright © 2002 by DART AEROSPACE LTD

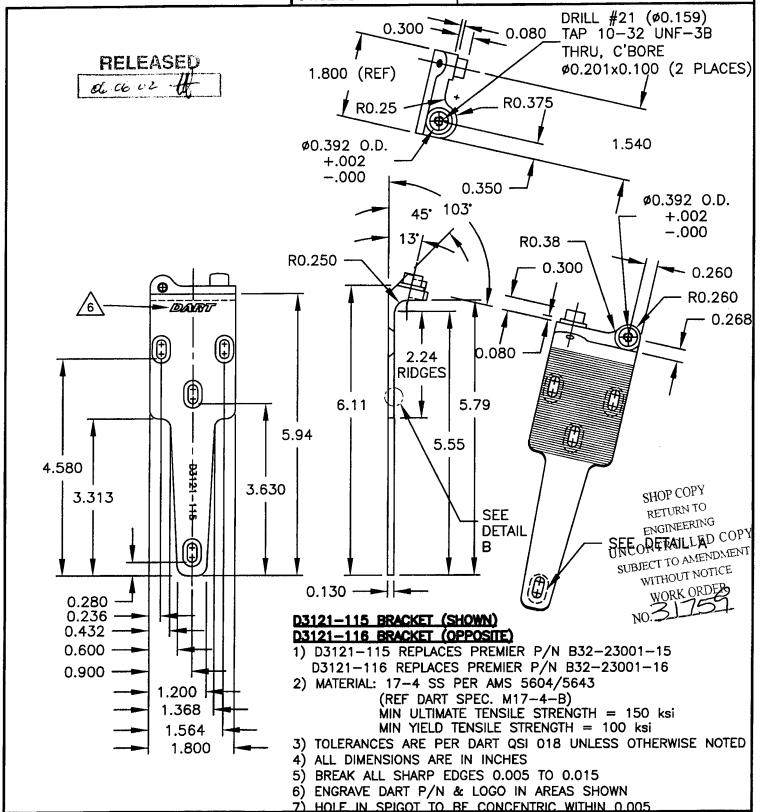




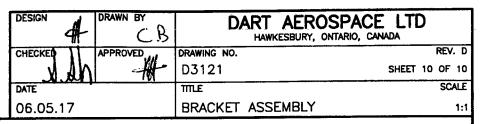


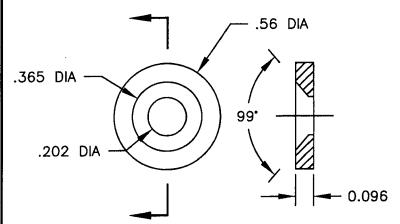






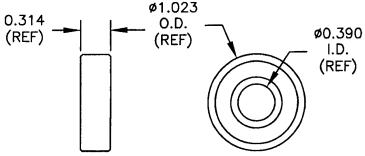






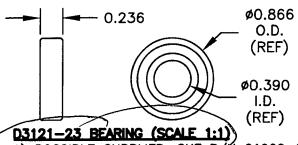
# D3121-17 WASHER (SCALE 2:1)

- 1) REPLACES PREMIER P/N B32-23001-17
- 2) MATERIAL: AISI 303 SS ROUND BAR, ANNEALED (REF DART SPEC. M303R)
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015



### D3121-19 BEARING (SCALE 1:1)

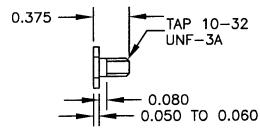
- 1) POSSIBLE SUPPLIER: KING BEARING P/N 6000-2ZJ/EM FAFNIR P/N 9100KDD
- 2) ALL DIMENSIONS ARE IN INCHES



1) POSSIBLE SUPPLIER: SKF\_P/N 61900-2Z

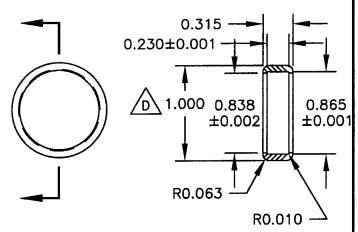
OR KML P/N 6900-ZZ

2) ALL DIMENSIONS ARE IN INCHES



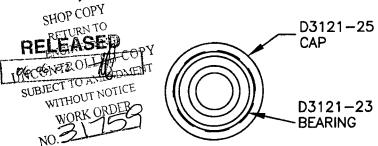
### D3121-21 BOLT (SCALE 1:1)

- 1) MATERIAL: AISI 303 SS HEX, ANNEALED (REF DART SPEC. M303H0.500)
- 2) FINISH: NONE
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.015



# D3121-25 CAP (SCALE 1:1)

- 1) MATERIAL: DELRIN ROD, Ø1.25
  - (REF DART SPEC. M-DELRIN-R1.250)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES



D3121-241 BEARING ASSEBLY (SCALE 1:1)



# SENERAL BEARING SERVICE

Mww.gbs.cg

386 MOIN ST E, HANRESBURY, ONTARTO KGA (AS (613), 632-4914

DRUGH DATE: APR 17, 2007

MAINE RV. III

austonen anger 🛊 🖘

PST LICENZE: 6122-5297

